

LIGHT COLLECTOR FOR AN LED ARRAY

ABSTRACT OF THE DISCLOSURE

A light collector for an LED array is provided. The light collector includes a transparent main body having a first portion and a second portion opposite to each other. The first portion has at least one first semi-cylinder and the second portion has a plurality of second semi-cylinders, and the first semi-cylinders are perpendicular to the second semi-cylinders. The number and the respective geometric arrangement of the first semi-cylinders and the second semi-cylinders are determined according to the LED array. The whole configuration of the light collector can be optimized in order that a desired illuminating area can be produced when the light of the LED array passes through the light collector.